日本語
English
中文

取扱説明書
User's Manual
用户手册

DuraVision®
FDX1001
FDV1001
FDX1201

カラー液晶モニター
Color LCD Monitor
彩色液晶显示器

重要

ご使用前には必ず本取扱説明書をよくお読みになり、正しくお使いください。この取扱説明書は大切に保管してください。

Important

Please read this User's Manual carefully to familiarize yourself with safe and effective usage. Please retain this manual for future reference.

重要事项

请仔细阅读用户手册，掌握如何安全、有效地使用本产品。请保留本手册，以备日后参考。

EIZO®

User's Manual

English

DuraVision®
FDX1001
FDV1001
FDX1201

Color LCD Monitor

SAFETY SYMBOLS

This manual and this product use the safety symbols below. They denote critical information. Please read them carefully.

WARNING Failure to abide by the information in a WARNING may result in serious injury and can be life threatening.
CAUTION Failure to abide by the information in a CAUTION may result in moderate injury and/or property or product damage.

	Indicates an attention to be required.
	Indicates a prohibited action.

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Although every effort has been made to ensure that this manual provides up-to-date information, please note that EIZO monitor specifications are subject to change without notice.

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⚠PRECAUTIONS

IMPORTANT

- This product is intended to be used with an industrial device designed to build industrial systems.
  - Transportation systems (Ship, aircraft, train, automobile, etc.)
  - Safety devices (Disaster prevention system, security control system, etc.)
  - Equipment with direct effect on human life (Life support systems, Medical equipment or devices used in the operating room, etc.)
  - Nuclear energy control devices (Nuclear energy control systems, security control systems of nuclear facilities, etc.)
  - Main line devices (Operation control for transportation, control systems specific to aircrafts, etc.)
- To ensure personal safety and proper maintenance, please read this section.

⚠ WARNING

This product is intended to be housed in an enclosure. Do not use the bare monitor separately.

Attempting to use a malfunctioning unit may result in electric shock, or equipment damage.

If the unit begins to emit smoke, smells like something is burning, or makes strange noises, disconnect all power connections immediately and contact your dealer for advice.

Attempting to use a malfunctioning unit may result in fire, electric shock, or equipment damage.

Do not open the cabinet or modify the unit.

Opening the cabinet or modifying the unit may result in fire, electric shock, or burn.

Refer all servicing to qualified service personnel.

Do not attempt to service this product yourself as opening or removing covers may result in fire, electric shock, or equipment damage.

Keep small objects or liquids away from the unit.

Small objects accidentally falling through the ventilation slots into the cabinet or spillage into the cabinet may result in fire, electric shock, or equipment damage. If an object or liquid falls/spills into the cabinet, unplug the unit immediately. Have the unit checked by a qualified service engineer before using it again.

Use the unit in an appropriate location.

Not doing so may result in fire, electric shock, or equipment damage.

- Do not place outdoors.
- Do not place in a transportation system (ship, aircraft, train, automobile, etc.) where it may be affected by strong vibration or shock.
- Do not place in a dusty or humid environment.
- Do not place in a location where water is splashed on the screen (bathroom, kitchen, etc.).
- Do not place in a location where the steam comes directly on the screen.
- Do not place near heat generating devices or a humidifier
- Do not place in a location where the product is subject to direct sunlight.
- Do not place in an inflammable gas environment.

Do not touch a damaged LCD panel directly with bare hands.

The liquid crystal that may leak from the panel is poisonous if it enters the eyes or mouth. If any part of the skin or body comes in direct contact with the panel, please wash thoroughly. If some physical symptoms result, please consult your doctor.

⚠ CAUTION

Handle with care when carrying the unit.

Disconnect the power cord and cables when moving the unit. Moving the unit with the cord attached is dangerous. It may result in injury.

Do not install the unit in a closed space.

If the inerior becomes hot, it may result in fire, electric shock or damage.

Notice for this monitor

This product may not be covered by warranty for uses other than those described in this manual.

Only use optional products manufactured or specified by us with this product.

As it takes about 30 minutes for the performance of electrical parts to stabilize, adjust the monitor 30 minutes or more after the monitor power has been turned on.

Monitors should be set to a lower brightness to reduce changes in luminosity caused by long-term use and maintain a stable display.

When the screen image is changed after displaying the same image for extended periods of time, an afterimage may appear. Use the screen saver or power save function to avoid displaying the same image for extended periods of time.

Periodic cleaning is recommended to keep the monitor looking new and to prolong its operation lifetime.
(Refer to “Cleaning” on the next page.)

The LCD panel is manufactured using high-precision technology. Although, missing pixels or lit pixels may appear on the LCD panel, this is not a malfunction. Percentage of effective dots: 99.99% or higher.

The backlight of the LCD panel has a fixed lifetime. When the screen becomes dark or begins to flicker, please contact your local EIZO representative.

Do not press on the panel or edge of the frame strongly, as this may result in display malfunctions, such as interference patterns, etc. If pressure is continually applied to the panel, it may deteriorate or damage your panel. (If the pressure marks remain on the panel, leave the monitor with a black or white screen. The symptom may disappear.)

Do not scratch or press on the panel with any sharp objects, as this may result in damage to the panel. Do not attempt to brush with tissues as this may scratch the panel.

When the monitor is cold and brought into a room or the room temperature goes up quickly, dew condensation may occur on the interior and exterior surfaces of the monitor. In that case, do not turn the monitor on. Instead wait until the dew condensation disappears, otherwise it may cause some damage to the monitor.

Cleaning

ATTENTION

- Chemicals such as alcohol and antiseptic solution may cause gloss variation, tarnishing, and fading of the panel, and also quality deterioration of the image.
- Never use any thinner, benzene, wax, and abrasive cleaner, which may damage the panel.

NOTE

- The optional ScreenCleaner is recommended for cleaning the panel surface.

If necessary, the stains on the panel surface can be removed by moistening part of a soft cloth with water.

To use the monitor comfortably

- An excessively dark or bright screen may affect your eyes. Adjust the brightness of the monitor according to the environmental conditions.
- Staring at the monitor for a long time tires your eyes. Take a 10-minute rest every hour.

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English

Chapter 1 Introduction

Thank you very much for choosing an EIZO color LCD monitor.

1-1. Features

- FDX1001/FDV1001: 10.4-inch screen, FDX1201: 12.1-inch screen
- Resolution
  - FDX1001/FDX1201: XGA (1024 × 768) display compliant
  - FDV1001: VGA (640 × 480) display compliant
- Maximum brightness

  FDX1001: Chassis mount type 600 cd/m^2 / Panel mount type 520 cd/m^2

  FDV1001: Chassis mount type 450 cd/m^2 / Panel mount type 390 cd/m^2

  FDX1201: Chassis mount type 1000 cd/m^2 / Panel mount type 870 cd/m^2
- LED backlight LCD panel

  The LED backlight provides better power efficiency and reduced power consumption compared to existing fluorescent backlight LCD panels.

  No mercury, a hazardous substance, is used.
- Analog signal support

  PC signal: D-Sub mini 15 pin connector × 1
  - FDX1001/FDX1201: Horizontal scanning frequency 24 kHz - 50 kHz,
    Vertical scanning frequency 55 Hz - 75 Hz
  - FDV1001: Horizontal scanning frequency 24 kHz - 32 kHz
    Vertical scanning frequency 56 Hz - 70.5 Hz

  Video signal: S-Video/ Video input connector × 1
  - Applicable Format NTSC, PAL, SECAM
- Crosshair display function

  Displays lines (Fine, Circle or Broken Line) as a reference for the position of the image displayed on the monitor. (page 17)
- Video aspect function

  Alters the display range of the input image (overscan). (page 17)

1-2. Package Contents

Please contact your local dealer for assistance if any of the listed items are missing or damaged.

NOTE

- Please retain the packing materials for future transport of the monitor.

- LCD Monitor
- User's Manual (Limited Warranty included)
- Cable Tie
- Mounting Screws (M4 × 12 mm): 4 pcs.
- Metal Panel Fittings: 4 pcs. (Panel mount type only)

Chapter 2 Assembly

ATTENTION

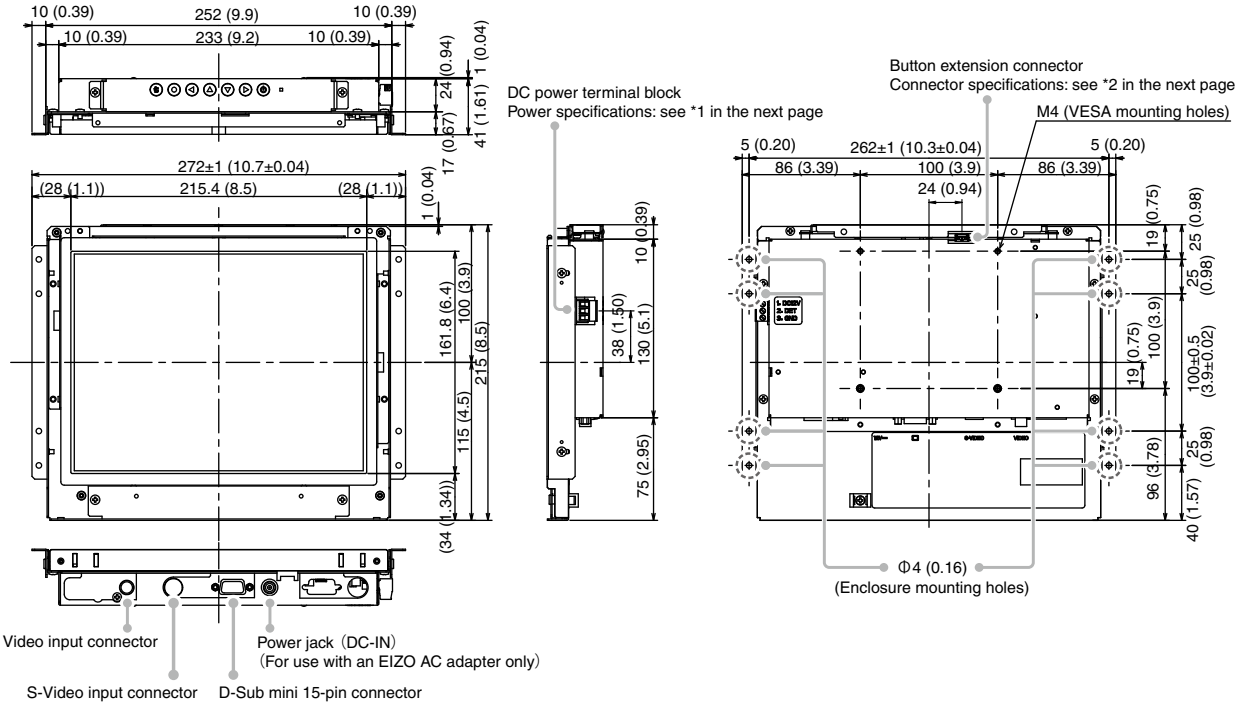
- Before mounting the monitor into the enclosure, please perform all settings and adjustments. For information on how to apply settings and adjustments, please refer to “Chapter 3 Settings and Adjustments”.

Chassis mount type

● Exterior view

FDX1001 / FDV1001

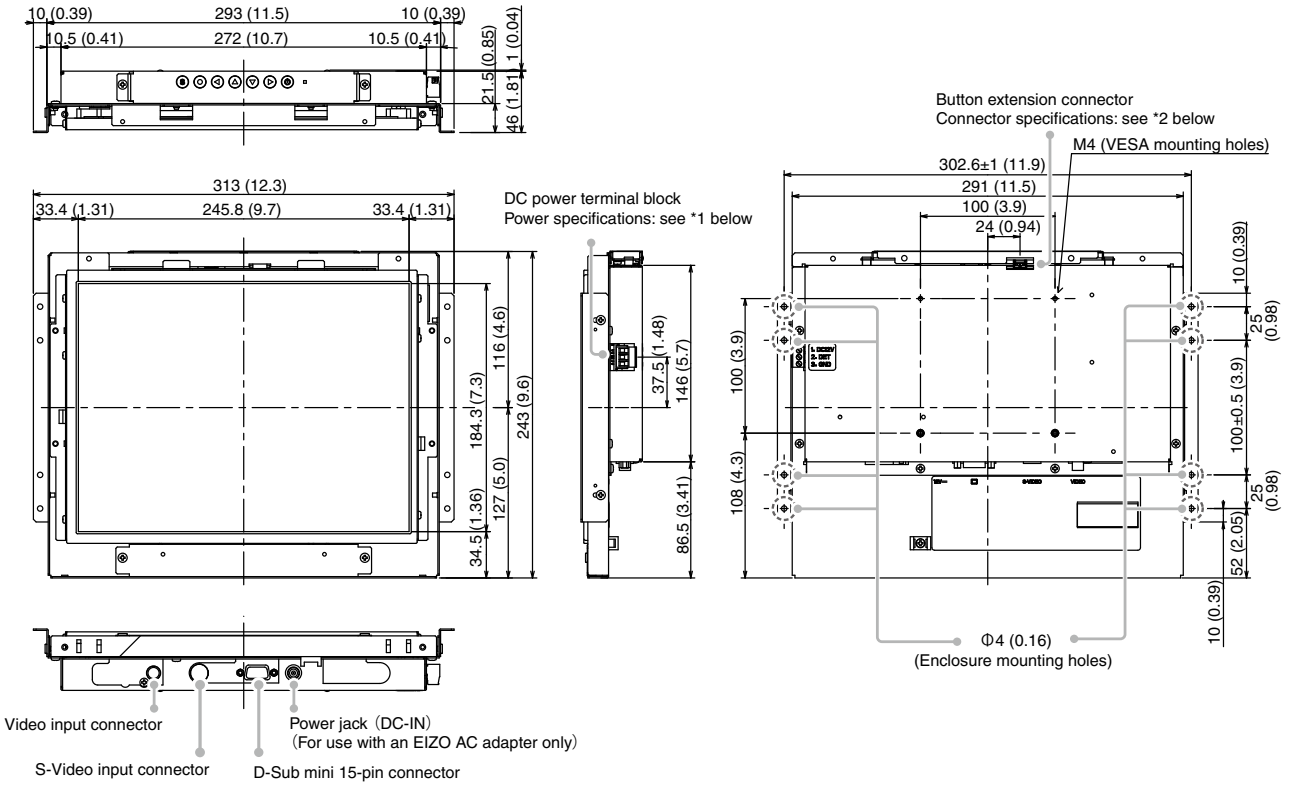
unit : mm (inch)



English

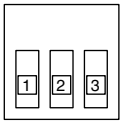
FDX1201

unit : mm (inch)



*1 DC power terminal block

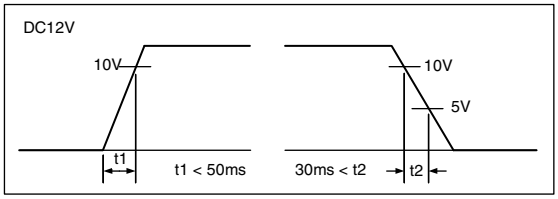
Connector Pin Assignment



Pin No.	Signal
1	DC12V
2	DET*
3	Ground

* Not connected

Power sequencing



*2 Button extension connector : S3B-PH-SM4-TB(LF)(SN) (JST)

Connector Pin Assignment

Pin No.	Signal
1	KEY0
2	KEY1
3	Ground

● How to assemble

1. Fasten screws through the mounting holes shown in the figure above (4 each on the left and right sides) into the enclosure.

ATTENTION

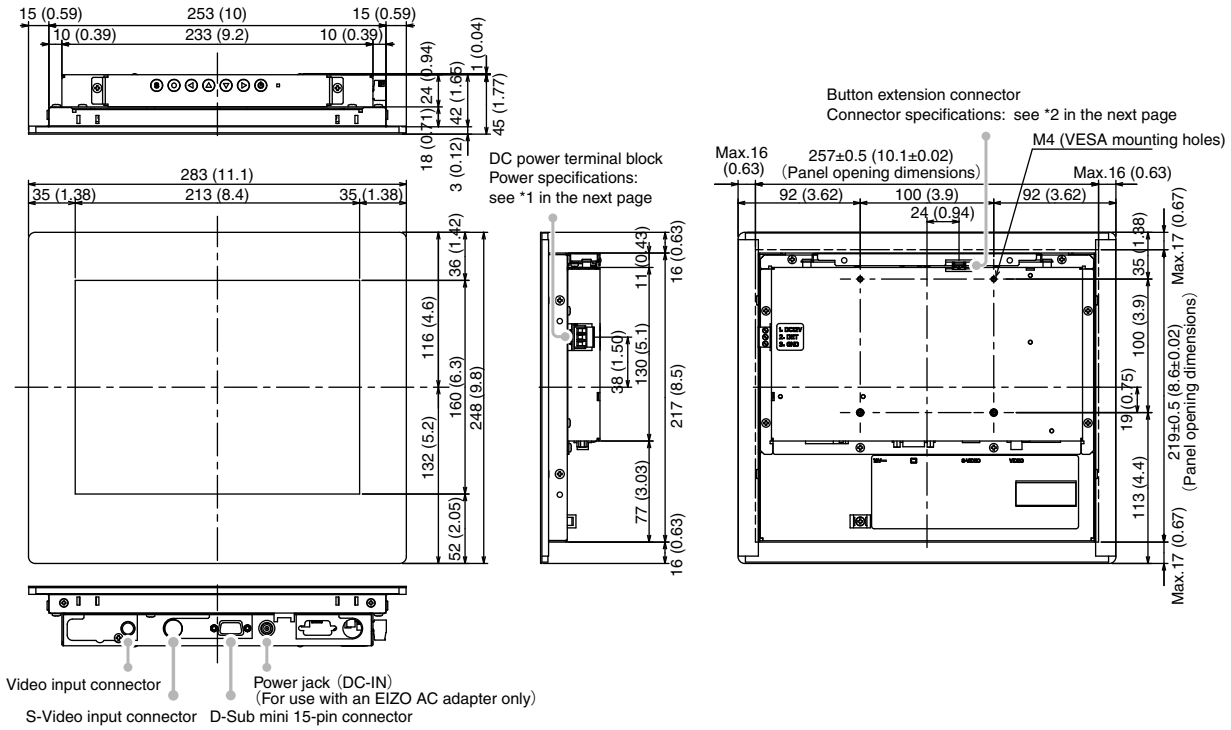
- Please prepare screws that have a diameter of 3 mm and are suitable for use with the enclosure. (Screws are not included with the monitor.)

Panel mount type

● Exterior view

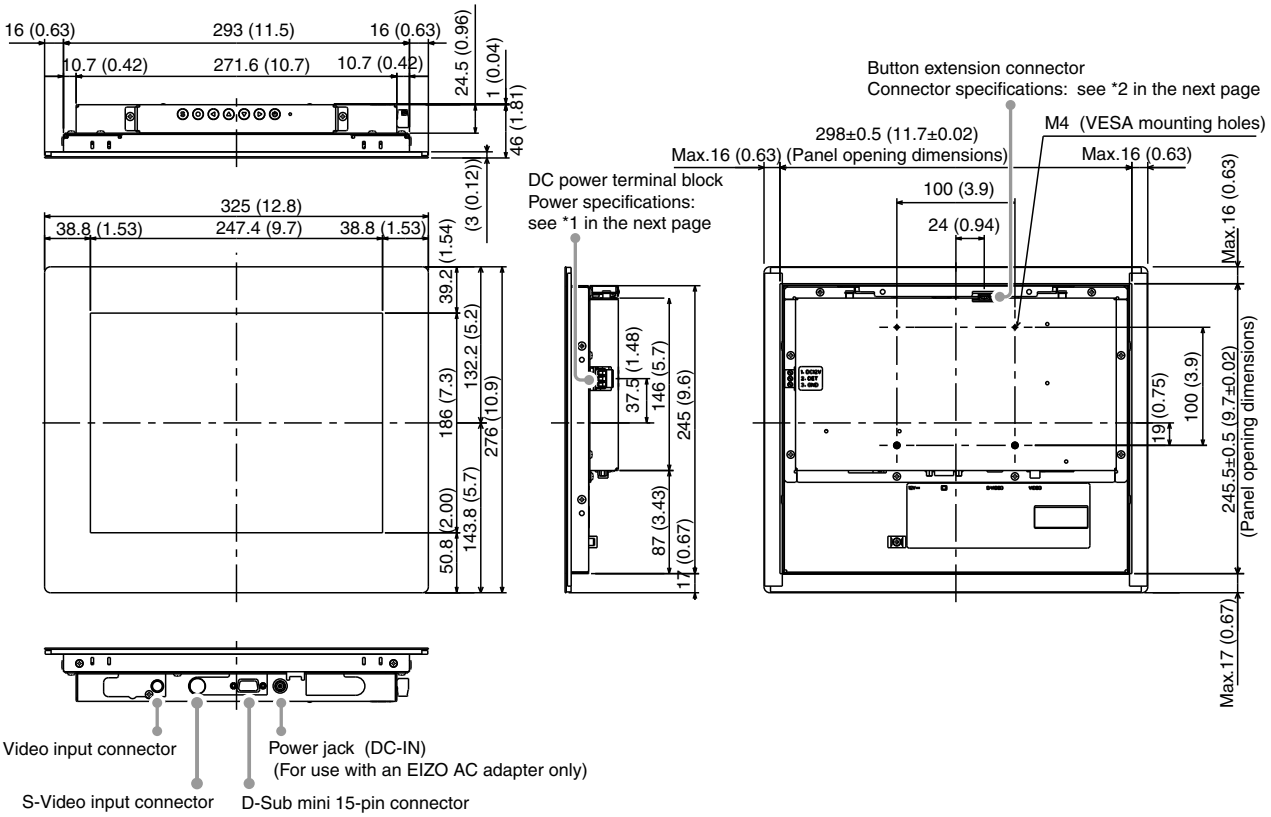
FDX1001 / FDV1001

unit : mm (inch)



FDX1201

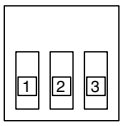
unit : mm (inch)



English

*1 DC power terminal block

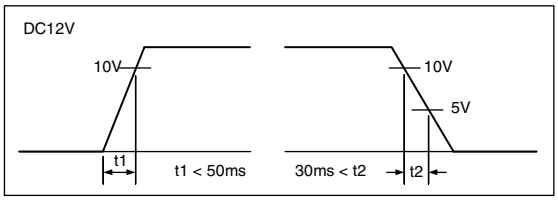
Connector Pin Assignment



Pin No.	Signal
1	DC12V
2	DET*
3	Ground

* Not connected

Power sequencing



*2 Button extension connector : S3B-PH-SM4-TB(LF)(SN) (JST)

Connector Pin Assignment

Pin No.	Signal
1	KEY0
2	KEY1
3	Ground

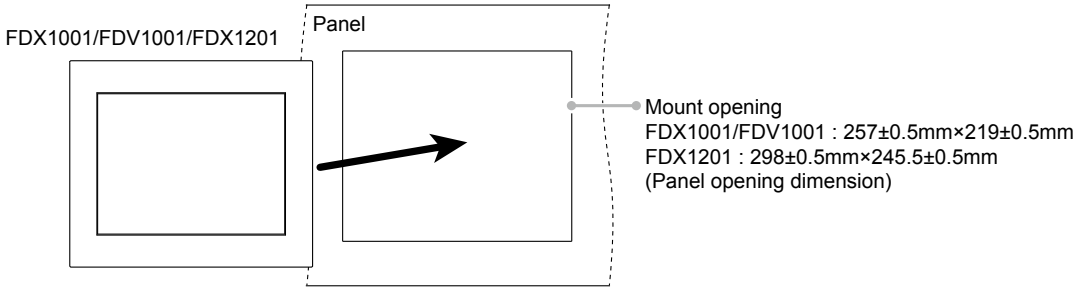
● How to assemble

ATTENTION

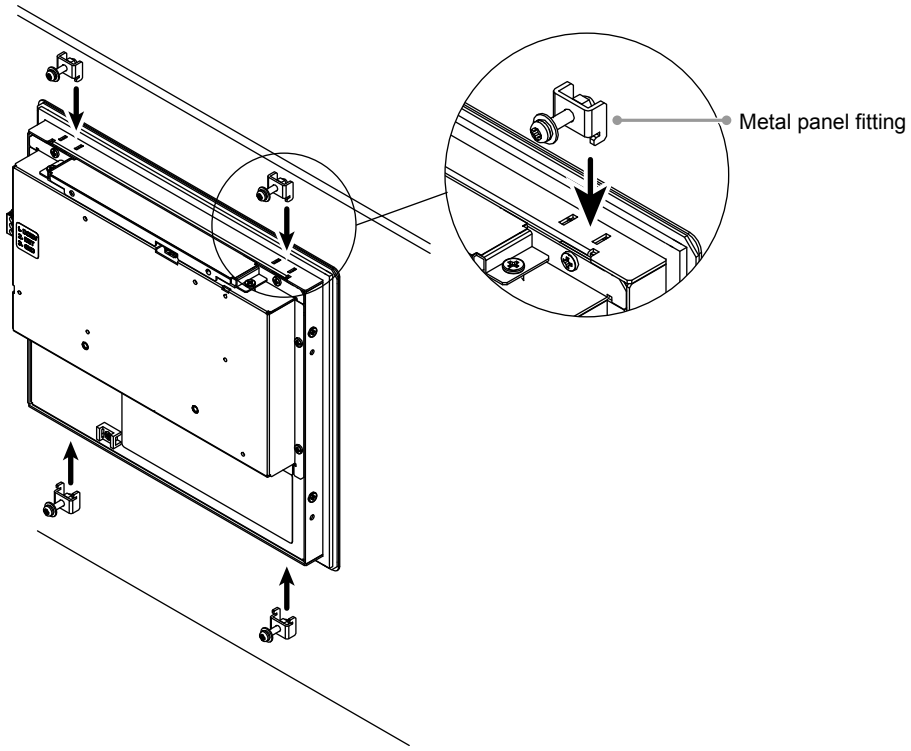
- Since the panel mounted on the monitor is tightened with a metal panel fitting screw, please make the selection considering the following points.
  - Flat
  - A thickness of 5 mm
  - A structure having the strength to support fixing with the screw.

1. Insert the monitor into the mount opening from the front.

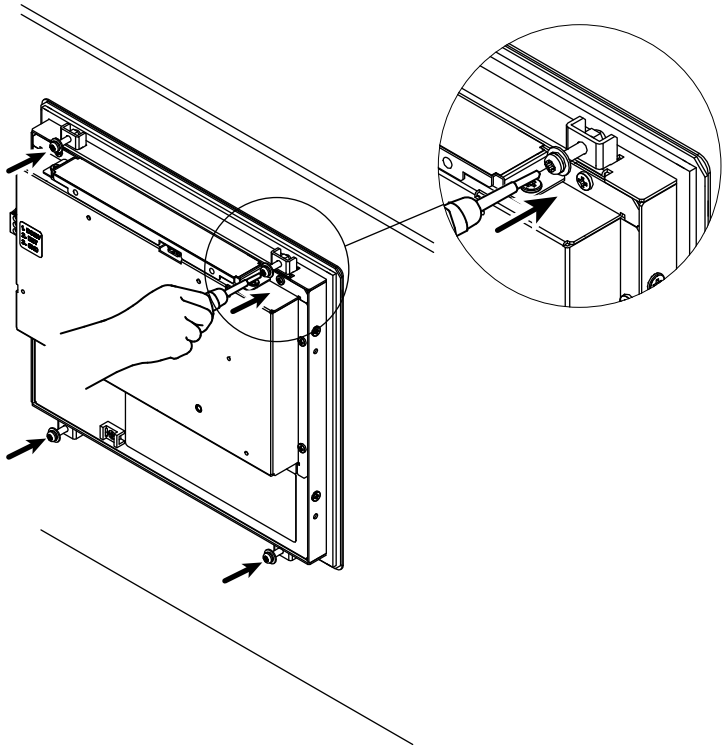
   The dimensions of a fitting opening are the “Panel opening dimensions” shown in the figure above.



2. Fit the included metal panel fittings onto the monitor (4 locations).



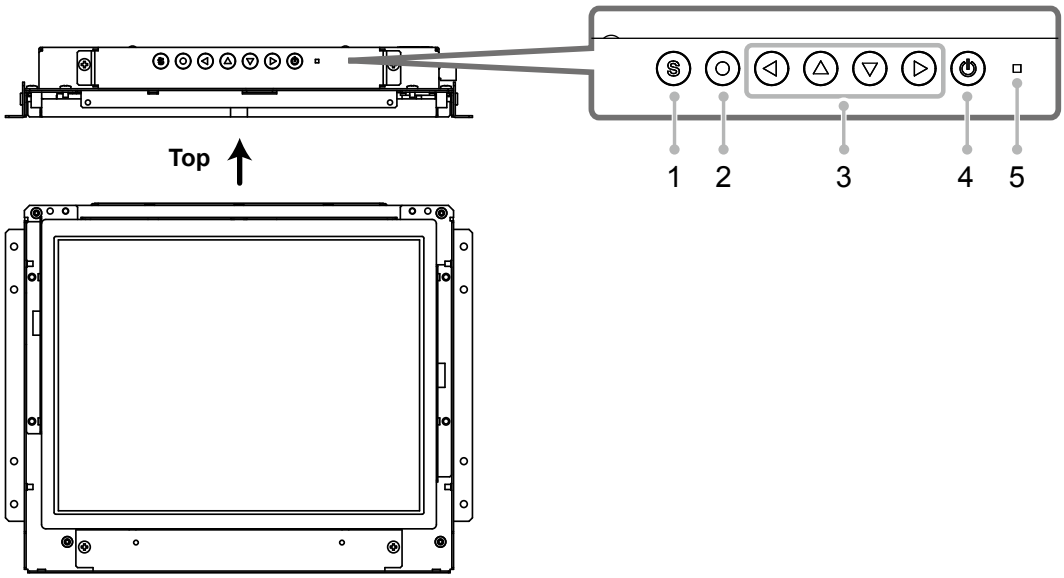
3. Tighten the screws of the metal panel fittings with a prescribed torque of 0.6-0.7 N·m.



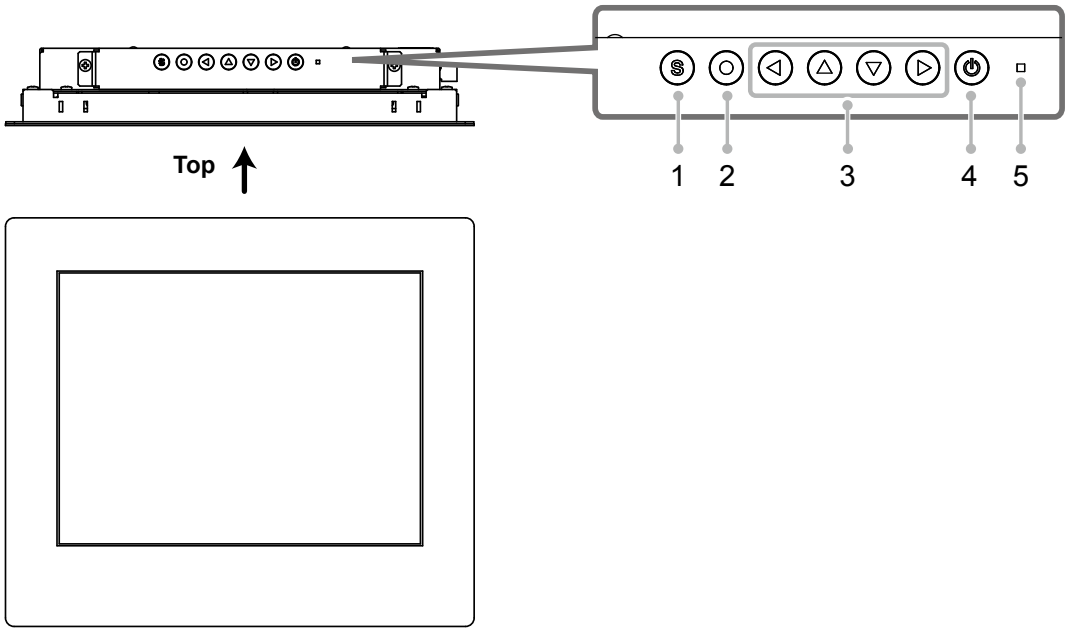
Chapter 3 Settings and Adjustments

3-1. Buttons

Chassis mount type



Panel mount type



1	Ⓢ button	Switches the input signal.
2	◎ button	Displays the Setting menu, fixes the setting or adjustment items on each menu, and saves the setting or adjustment results.
3	◁△▽▷ button	• Used to select the setting or adjustment items, or to increase or decrease the adjustment values on each menu. • When the settings menu is not displayed, pressing △ or ▽ switches between displaying and not displaying the crosshair.
4	⏻ button	Turns the power on or off.
5	Power indicator	Indicates monitor's operation status. Blue: Operating Orange: Power off

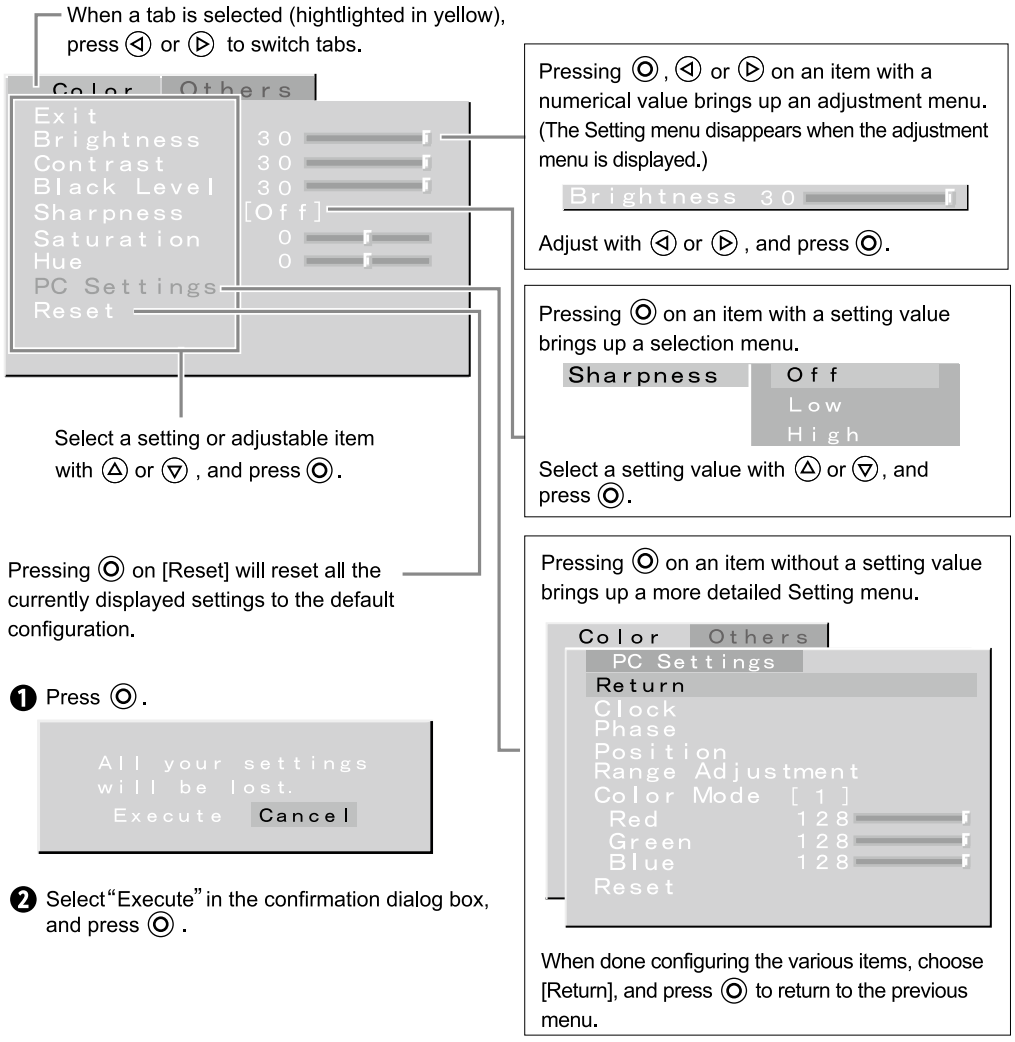
3-2. Basic Operation and Functions

Basic operation of Setting menu

1 Displaying Setting Menu

Press ⓞ.

2 Setting/Adjusting


When a tab is selected (hightlighted in yellow), press ◁ or ▷ to switch tabs.
Color Others
Exit
Brightness 30
Contrast 30
Black Level 30
Sharpness [Off]
Saturation 0
Hue 0
PC Settings
Reset
Select a setting or adjustable item with △ or ▽ , and press ⓞ.
Pressing ⓞ, ◁ or ▷ on an item with a numerical value brings up an adjustment menu. (The Setting menu disappears when the adjustment menu is displayed.)
Brightness 30
Adjust with ◁ or ▷ , and press ⓞ.
Pressing ⓞ on an item with a setting value brings up a selection menu.
Sharpness
Off
Low
High
Select a setting value with △ or ▽, and press ⓞ.
Pressing ⓞ on [Reset] will reset all the currently displayed settings to the default configuration.
❶ Press ⓞ.
All your settings will be lost.
Execute Cancel
❷ Select "Execute" in the confirmation dialog box, and press ⓞ .
Pressing ⓞ on an item without a setting value brings up a more detailed Setting menu.
Color Others
PC Settings
Return
Clock
Phase
Position
Range Adjustment
Color Mode [1]
Red 128
Green 128
Blue 128
Reset
When done configuring the various items, choose [Return], and press ⓞ to return to the previous menu.

3 Exiting

Choose [Exit] with △ or ▽, and press ⓞ.

NOTE

- Keeping ⓞ pressed for 2 seconds will also exit the Setting menu.

English

Functions

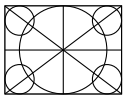
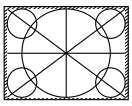
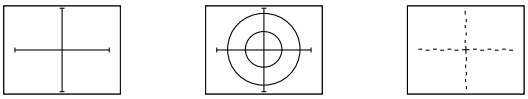
The settings adjustable in the Setting menu are as shown below. The availability of items depends on the input signal.

√ : Configurable — : Not configurable

Tab	Setting / adjustable item		Setting / adjustable value	PC	Video	Setting / adjustable content
Color	Brightness		0 - 30	√	√	Adjusts the brightness of the backlight.
	Contrast		0 - 30	√	√	Adjusts the contrast.
	Black Level		0 - 30	√	√	Adjusts the image brightness.
	Sharpness		Off/Low/High	—	√	Adjusts the image outlines.
	Saturation		-30 - +30	—	√	Adjusts the saturation.
	Hue		-30 - +30	—	√	Adjusts the hue.
	PC Settings[*1]	Clock		√	—	Adjust this when vertical bars appear.
		Phase		√	—	Adjust this when the screen appears to flicker or blur.
		Position		√	—	Adjust this when the display positioning is misaligned.
		Range Adjustment		√	—	Provides automatic adjustment when you want every color gradients displayed.
		Color Mode[*2]	1/2/3	√	—	Select Color Mode (1/2/3) to adjust the colors of red, green and blue in several modes.
		Red/ Green/ Blue	0 - 128	√	—	
		Reset		√	—	Resets the state adjusted with [PC Settings] to the factory default.
	Reset			√	√	Resets the state adjusted with the [Color] tab to the factory default (excluding [PC Settings]).

[*1] This setting becomes available when a PC is connected to the monitor. Please adjust with a PC when display and color adjustments are required.

[*2] Perform [Range Adjustment] before adjusting Color Mode.

Tab	Setting / adjustable item	Setting / adjustable value	PC	Video	Setting / adjustable content
Others	Video Aspect	Normal/100%	—	√	Configures the display range of the input image (overscan). "Normal" : Displays the input image with the outmost parts slightly cut off. * This is how display devices normally display images.  "100%" : Displays most of the input image. * Because a part of the image which normally gets cut off is displayed as well, noise may be visible around the outmost parts, depending on the input signal. 
	Power Save	Disable/Enable	√	√	Automatically turns off the power supply if no video signal has been received for 15 minutes during PC or video viewing.
	Reverse	Off/On	√	√	Displays the image upside down (180 degree rotation).
	Crosshair	Off/Fine/Circle/ Broken Line	√	√	Displays a crosshair as a reference for the position of the image. "Fine" "Circle" "Broken Line"  (When the settings menu is not displayed, pressing △ or ▽ switches between displaying and not displaying the crosshair.)
	Color	When "Fine" is selected: Black/White/ Red/Green When "Circle" or "Broken Line" is selected: Black/White	√	√	Configures the color of the crosshair.
	Width	Narrow/Wide	√	√	Configures the thickness of the crosshair's lines.
	Beep	Off/On	√	√	Sets button press sounds and connection error sounds to on or off. • Short beep : - When ⏻, Ⓢ or ◎ is pressed. - When an item is selected with ◎. - When a maximum or minimum value is set with ◁ or ▷. • Long beep : When registration is performed with ◎. • 2 short beeps : When the Setting menu is displayed and ⏻ is pressed. • 4 short beeps : - When there is no input signal. - When a frequency out of the specified range is received.
	Language	日本語 /English	√	√	Configures the displayed Setting menu and message language.
	Information		√	√	Reviews the input signals, usage time and model name.

English

Chapter 4 Troubleshooting

If a problem still remains after applying the suggested remedies, contact your local dealer.

Common

Problems	Possible cause and remedy
No picture • Power indicator does not light.	• Check whether the power cord is connected correctly. • If the problem persists, turn off the power, and then turn it on again a few minutes later.
• Power indicator lights orange.	• Press ⏻.
• Power indicator lights blue.	• Check whether the power of the connected device is turned on. • Switch the input signal. • Set each adjusting value in [Brightness] and [Contrast] to higher level. (see page 16)
The screen is too bright or too dark.	• Adjust using [Brightness] or [Contrast]. (The LCD monitor backlight has a fixed life span. When the screen becomes dark or begins to flicker, contact your local dealer.) (see page 16)
Green/red/blue/white dots or defective dots remain on the screen.	• This is due to LCD panel characteristics and is not a failure.
Interference patterns or pressure marks remain on the screen.	• Leave the monitor with a white or black screen. The symptom may disappear.
Afterimages appear.	• Afterimages are particular to LCD monitors. Avoid displaying the same image for a long time. • When displaying the same image for extended periods of time, please set up the screen saver and/or make use of the power saving function.

When displaying on a PC screen

Problems	Possible cause and remedy
The message below appears.	• This message appears when the signal is not input correctly even when the monitor functions properly.
• This message appears when no signal is input. 	• The message shown left may appear, because some PCs do not output the signal soon after power-on. • Check whether the PC is turned on. • Check whether the signal cable is connected properly.
• The message shows that the input signal is out of the specified frequency range. 	• Check whether the signal setting of your PC matches the resolution and the vertical frequency settings for the monitor. (see page 19, 20, 21) (Current input signal can be checked in [Information].) • Reboot the PC. • Select an appropriate display mode using the graphics board's utility. Refer to the manual of the graphics board for details.
Display position is incorrect.	• Adjust image position using [Position]. (see page 16)
Vertical bars appear on the screen or a part of the image is flickering.	• Adjust using [Clock]. (see page 16)
Whole screen is flickering or blurring.	• Adjust using [Phase]. (see page 16)
Characters are blurred.	• This may occur when a non-complying high-resolution signal is input. Check the PC settings and change the resolution which complies with the monitor.

Chapter 5 Reference

5-1. Specifications

FDX1001

LCD Panel	Size	10.4-inch (260 mm) TFT color LCD
	Surface treatment	Chassis mount type: Anti-glare hard coating Panel mount type: Anti-glare
	Surface hardness	Chassis mount type: 3H Panel mount type: 4H
	Viewing angle	Horizontal 160°, Vertical 130° (CR : 10 or more)
	Dot Pitch	0.2055 mm
Display Area (H × V)		210.4 mm × 157.8 mm
Resolution		1024 dots × 768 lines
Max. Display Color		Approx. 16.7 million colors
PC input	Horizontal Scan Frequency	24-50 kHz
	Vertical Scan Frequency	55-75 Hz (Non-interlace)
	Max. Dot Clock	65 MHz
	Input Signal Connector	D-Sub mini 15-pin × 1
	Input Signal (Sync)	Separate, TTL, positive / negative
	Input Signal (Video)	Analog, Positive (0.7Vp-p/75Ω)
	Max. Video Signal Memory	15 (preset : 13)
	Plug and Play	VESA DDC 2B/EDID structure 1.3
Video input	Applicable Format	NTSC, PAL, SECAM
	Input Signal Connector	S-Video DIN mini 4 pin/ Video Pin jack × 1
	Input Signal Level	S-Video DIN mini 4 pin : Y 1.0Vp-p/75Ω, C 0.28Vp-p/75Ω Video Pin jack : 1.0Vp-p/75Ω
Power Supply		12VDC±10%, 0.9 A
Power Consumption	Screen Display On	11 W or less
	Power Off	0.5 W or less
Dimensions (Width) × (Height) × (Depth)	Chassis mount type	272 mm (10.7 inch) × 215 mm (8.5 inch) × 41 mm (1.61 inch) (excluding the projection)
	Panel mount type	283 mm (11.1 inch) × 248 mm (9.8 inch) × 45 mm (1.77 inch) (excluding the projection)
Mass	Chassis mount type	Approx. 1.9 kg (4.2 lbs.)
	Panel mount type	Approx. 2.3 kg (5.1 lbs.)
Environmental Conditions	Temperature	[Operating temperature] 0 °C - 50 °C (32 °F - 122 °F) [Storage temperature] -20 °C - 60 °C (-4 °F - 140 °F)
	Humidity	[Operating humidity] 20% - 90% R.H. (wet bulb temperature ≤ 39 °C (102 °F), no condensation) [Storage humidity] 10% - 90% R.H. (wet bulb temperature ≤ 39 °C (102 °F), no condensation)
	Pressure	[Operating] 700 hPa - 1060 hPa [Storage] 200 hPa - 1060 hPa

English

FDV1001

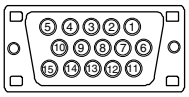
LCD Panel	Size	10.4-inch (260 mm) TFT color LCD
	Surface treatment	Chassis mount type: Anti-glare hard coating Panel mount type: Anti-glare
	Surface hardness	Chassis mount type: 3H Panel mount type: 4H
	Viewing angle	Horizontal 160°, Vertical 140° (CR : 10 or more)
	Dot Pitch	0.33 mm
Display Area (H × V)		211.2 mm × 158.4 mm
Resolution		640 dots × 480 lines
Max. Display Color		Approx. 16.2 million colors
PC input	Horizontal Scan Frequency	24-32 kHz
	Vertical Scan Frequency	56-70.5 Hz (Non-interlace)
	Max. Dot Clock	31 MHz
	Input Signal Connector	D-Sub mini 15-pin × 1
	Input Signal (Sync)	Separate, TTL, positive / negative
	Input Signal (Video)	Analog, Positive (0.7Vp-p/75Ω)
	Max. Video Signal Memory	10 (preset : 8)
	Plug and Play	VESA DDC 2B/EDID structure 1.3
Video input	Applicable Format	NTSC, PAL, SECAM
	Input Signal Connector	S-Video DIN mini 4 pin/ Video Pin jack × 1
	Input Signal Level	S-Video DIN mini 4 pin : Y 1.0Vp-p/75Ω, C 0.28Vp-p/75Ω Video Pin jack : 1.0Vp-p/75Ω
Power Supply		12VDC±10%, 0.7 A
Power Consumption	Screen Display On	9 W or less
	Power Off	0.5 W or less
Dimensions (Width) × (Height) × (Depth)	Chassis mount type	272 mm (10.7 inch) × 215 mm (8.5 inch) × 41 mm (1.61 inch) (excluding the projection)
	Panel mount type	283 mm (11.1 inch) × 248 mm (9.8 inch) × 45 mm (1.77 inch) (excluding the projection)
Mass	Chassis mount type	Approx. 1.7 kg (3.7 lbs.)
	Panel mount type	Approx. 2.1 kg (4.6 lbs.)
Environmental Conditions	Temperature	[Operating temperature] 0 °C - 50 °C (32 °F - 122 °F) [Storage temperature] -20 °C - 60 °C (-4 °F - 140 °F)
	Humidity	[Operating humidity] 20% - 90% R.H. (wet bulb temperature ≤ 39 °C (102 °F), no condensation) [Storage humidity] 10% - 90% R.H. (wet bulb temperature ≤ 39 °C (102 °F), no condensation)
	Pressure	[Operating] 700 hPa - 1060 hPa [Storage] 200 hPa - 1060 hPa

FDX1201

LCD Panel	Size	12.1-inch (310 mm) TFT color LCD
	Surface treatment	Anti-glare
	Surface hardness	Chassis mount type: 3H Panel mount type: 4H
	Viewing angle	Horizontal 160°, Vertical 140° (CR : 10 or more)
	Dot Pitch	0.240 mm
Display Area (H × V)		245.76 mm × 184.32 mm
Resolution		1024 dots × 768 lines
Max. Display Color		Approx. 16.7 million colors
PC input	Horizontal Scan Frequency	24-50 kHz
	Vertical Scan Frequency	55-75 Hz (Non-interlace)
	Max. Dot Clock	65 MHz
	Input Signal Connector	D-Sub mini 15-pin × 1
	Input Signal (Sync)	Separate, TTL, positive / negative
	Input Signal (Video)	Analog, Positive (0.7Vp-p/75Ω)
	Max. Video Signal Memory	15 (preset : 13)
	Plug and Play	VESA DDC 2B/EDID structure 1.3
Video input	Applicable Format	NTSC, PAL, SECAM
	Input Signal Connector	S-Video DIN mini 4 pin/ Video Pin jack × 1
	Input Signal Level	S-Video DIN mini 4 pin : Y 1.0Vp-p/75Ω, C 0.28Vp-p/75Ω Video Pin jack : 1.0Vp-p/75Ω
Power Supply		12VDC±10%, 1.4 A
Power Consumption	Screen Display On	17 W or less
	Power Off	0.8 W or less
Dimensions (Width) × (Height) × (Depth)	Chassis mount type	313 mm (12.3 inch) × 243 mm (9.6 inch) × 46 mm (1.81 inch) (excluding the projection)
	Panel mount type	325 mm (12.8 inch) ×276 mm (10.9 inch) × 46 mm (1.81 inch) (excluding the projection)
Mass	Chassis mount type	Approx. 2.2 kg (4.9 lbs.)
	Panel mount type	Approx. 2.8 kg (6.2 lbs.)
Environmental Conditions	Temperature	[Operating temperature] 0 °C - 50 °C (32 °F - 122 °F) [Storage temperature] -20 °C - 60 °C (-4 °F - 140 °F)
	Humidity	[Operating humidity] 20% - 90% R.H. (wet bulb temperature ≤ 39 °C (102 °F), no condensation) [Storage humidity] 10% - 90% R.H. (wet bulb temperature ≤ 39 °C (102 °F), no condensation)
	Pressure	[Operating] 700 hPa - 1060 hPa [Storage] 200 hPa - 1060 hPa

Connector Pin Assignment

- D-Sub mini 15-pin connector



Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	Red video	6	Red video ground	11	NC*
2	Green video	7	Green video ground	12	Data (SDA)
3	Blue video	8	Blue video ground	13	H. Sync
4	NC*	9	NC*	14	V. Sync
5	Ground	10	Ground	15	Clock (SCL)

(NC*: No Connection)

5-2. Glossary

Afterimage

The Afterimage is particular to LCD monitors. When the monitor screen is left on for a long period without use. The Afterimage can be removed gradually by changing the displayed image.

Clock

The analog input monitor needs to reproduce a clock of the same frequency as the dot clock of the graphics system in use, when the analog input signal is converted to a digital signal for image display. This is called clock adjustment. If the clock pulse is not set correctly, some vertical bars appear on the screen.

Phase

Phase means the sampling timing to convert the analog input signal to a digital signal. Phase adjustment is made to adjust the timing. It is recommended that phase adjustment be made after the clock is adjusted correctly.

Range Adjustment

Range adjustment controls the signal output levels to display every color gradation.
It is recommended that range adjustment be made before color adjustment.

Resolution

The LCD panel consists of numerous pixels of specified size, which are illuminated to form images. This monitor consists of 1024 (FDX1001/FDX1201) / 640 (FDV1001) horizontal pixels and 768 (FDX1001/FDX1201) / 480 (FDV1001) vertical pixels.
At a resolution of 1024 × 768 (FDX1001/FDX1201) / 640 × 480 (FDV1001), all pixels are illuminated as a full screen (1:1).

5-3. Preset Timing

The following table shows the factory preset video timing of the PC.

ATTENTION

- Display position may be deviated depending on the PC connected, which may require screen adjustment using Setting menu.
- If a signal other than those listed in the table is input, adjust the screen using the Setting menu. However, screen display may still be incorrect even after the adjustment.
- When interlace signals are used, the screen cannot be displayed correctly even after screen adjustment using the Setting menu.

FDX1001/FDX1201

Resolution	Applicable signal	Frequency			Polarity	
		Dot clock : MHz	Horizontal : kHz	Vertical : Hz	Horizontal	Vertical
720 × 400	VGA TEXT	28.33	31.47	70.09	Negative	Positive
640 × 480	VGA	25.18	31.47	59.94	Negative	Negative
640 × 480	VESA	31.50	37.86	72.81	Negative	Negative
640 × 480	VESA	31.50	37.50	75.00	Negative	Negative
800 × 600	VESA	36.00	35.16	56.25	Positive	Positive
800 × 600	VESA	40.00	37.88	60.32	Positive	Positive
800 × 600	VESA	50.00	48.08	72.19	Positive	Positive
800 × 600	VESA	49.50	46.88	75.00	Positive	Positive
1024 × 768	VESA	65.00	48.36	60.00	Negative	Negative
640 × 480	MAC	30.24	35.00	66.67	Negative	Negative
832 × 624	MAC	57.28	49.72	74.55	Negative	Negative
640 × 400	PC-9801	21.05	24.83	56.42	Negative	Negative
640 × 400	PC-9821 AP2	25.18	31.48	70.10	Negative	Negative

FDV1001

Resolution	Applicable signal	Frequency			Polarity	
		Dot clock : MHz	Horizontal : kHz	Vertical : Hz	Horizontal	Vertical
720 × 400	VGA TEXT	28.33	31.47	70.09	Negative	Positive
640 × 480	VGA	25.18	31.47	59.94	Negative	Negative
800 × 600	VESA	36.00	35.16	56.25	Positive	Positive
800 × 600	VESA	40.00	37.88	60.32	Positive	Positive
1024 × 768	VESA	65.00	48.36	60.00	Negative	Negative
640 × 480	MAC	30.24	35.00	66.67	Negative	Negative
640 × 400	PC-9801	21.05	24.83	56.42	Negative	Negative
640 × 400	PC-9821 AP2	25.18	31.48	70.10	Negative	Negative

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(c) Any deterioration of the sensor;

(d) Any deterioration of display performance caused by the deterioration of expendable parts such as the LCD panel and/or backlight, etc. (e.g. changes in brightness, changes in brightness uniformity, changes in color, changes in color uniformity, defects in pixels including burnt pixels, etc.);

(e) Any defect of the Product caused by external equipment;

(f) Any defect of the Product on which the original serial number has been altered or removed;

(g) Any defect of the Product caused by liquid leaking from battery;

(h) Any normal deterioration of the product, particularly that of consumables, accessories, and/or attachments (e.g. batteries, buttons, rotating parts, remote control, cables, User’s Manual, etc.); and

(i) Any deformation, discoloration, and/or warp of the exterior of the product including that of the surface of the LCD panel.

To obtain service under the Warranty, the Original Purchaser must deliver the Product, freight prepaid, in its original package or other adequate package affording an equal degree of protection, assuming the risk of damage and/or loss in transit, to the local Distributor. The Original Purchaser must present proof of purchase of the Product and the date of such purchase when requesting services under the Warranty.

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お客様	フリガナ	ご住所 〒
	お名前 様	TEL （ ）

販売店	お買い上げ年月日 年 月 日
	住所・店名・TEL・担当者

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